



Research and Special Programs Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY SPECIAL FORM RADIOACTIVE MATERIALS CERTIFICATE NUMBER USA/0165/S, REVISION 6

This certifies that the sources described have been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and United States of America² for the transport of radioactive materials.

- 1. <u>Source Identification</u> AEA Technology QSA, Inc. Model Nos. A424-2 through A424-19 (excluding A424-6 through A424-9) and A453-1 through A453-10 (excluding A453-3 and A453-4).
- 2. <u>Source Description</u> Cylindrical single or double encapsulations made of Type 304 or 304L stainless steel and seal welded. Approximate external dimensions are between 6.35 mm (0.25 in.) to 12.07 mm (0.48 in.) in diameter and between 23.8 mm (0.937 in.) to 40.33 mm (1.588 in.) in length. Each capsule assembly is connected to a source wire and connector assembly for use in radiographic instruments. Construction shall be in accordance with attached Technical Operations Inc. Drawing No. 60060, Sheets 2 and 3.
- 3. <u>Radioactive Contents</u> No more than the following listed values of Cobalt-60 in solid metal form.

| Model | Capsule Style | Activity (TBq/Ci) 0.81/22 |
|---------|---------------|------------------------------|
| A424-2 | 60011, 60001 | |
| A424-3 | 60011, 60001 | 0.81/22 |
| A424-4 | 60011, 60000 | 2.04/55 |
| A424-5 | 60011, 60001 | 0.22/6 |
| A424-10 | 60011, 60004 | 0.22/6 |
| A424-11 | 60011, 60004 | 2.04/55 |
| A424-12 | 60011, 60004 | 4.07/110 |
| A424-13 | 60012, 60002 | 12.22/330 |
| A424-14 | 60011, 60004 | 4.07/110 |
| A424-15 | 60011, 60004 | 0.41/11 |
| A424-16 | 60011, 60000 | 2.04/55 |
| A424-17 | 60011, 60000 | 2.04/55 |
| A424-18 | 60011, 60000 | 1.22/33 |
| A424-19 | 60001, 60004 | 0.004/0.11 |

¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised), " published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

² Title 49, Code of Federal Regulations, Parts 100 - 199, United States of America.

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| <u>Model</u> | <u>Capsule Style</u> | <u> Activity (Tbg/Ci)</u> |
|--------------|----------------------|---------------------------|
| A453-1 | 60011, 60000 | 4.07/110 |
| A453-2 | 60012, 60002 | 6.11/165 |
| A453-5 | 60012, 60002 | 20.37/550 |
| A453-6 | 60013, 60003 | 40.74/1100 |
| A453-7 | 60011, 60000 | 4.07/110 |
| A453-8 | 60011, 60000 | 2.04/55 |
| A453-9 | 60011, 60000 | 2.04/55 |
| A453-10 | 60011, 60000 | 2.04/55 |

- 4. Quality Assurance Records of Quality Assurance activities required by paragraph 310 of the IAEA regulations shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors and consignees in the United States exporting or importing shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.
- 5. Expiration Date This certificate expires on September 30, 2008. On December 31, 2003, this certificate supersedes, in its entirety, all previously issued revisions of USA/0165/S.

This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the petition and information dated August 18, 2003 submitted by AEA Technology QSA, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified by:

SEP 15 2003

Pobert A. McGylre
Associate Addinistrator for
Hazardous Materials Safety

Revision 6 - Issued to update to 1996 TS-R-1 Revision and current corporate name, and correct stated length error.



